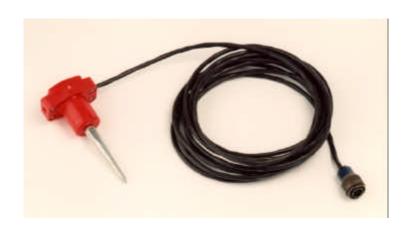
Seismic Point Sensor Model 4321-SPD



Date Revised: 23 JAN 03

VENDOR DESCRIPTION

The Seismic Point Sensor (SPS) is a passive detector that produces an output signal in response to seismic stimuli created by either vehicles or personnel within the zone under surveillance. The probe does not depend on line of sight for operation. It interfaces with the seismic input of the Processor/Transmitter.





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Power Source		Environmental				
Sensors/Power	4 – 6V lantern batteries	High Temp	+60°C/140°F	Low Temp	-30°C/-22°F	(Monitor -60°C/-76°F)
Transmitters		Altitude	N/A			
Supplemental Battery Box	8 – 6V lantern batteries	Humidity	N/A			
		Immersion	N/A			
		Sand/Dust	N/A			
Monitor	9 each 1.2V NICAD, 4000mAh 12VDC or 115VAC	Salt	N/A			
		Fungus	N/A			
Repeater	4 – 6V lantern batteries	Shock/Vibe	N/A			
		EMI/EMC	N/A			

Sensor	Description	Detection	Size/Weight	Features	
Seismic/ Acoustic	Employs sophisticated algorithm to classify targets as personnel, wheeled or tracked veh. based on comb. seismic & acoustic signatures	Tracked Vehicle 0-12 Wheeled Vehicle 0-12 Personnel 0-30	0 ft 2.4in x 1.5in x 4.5in	■ Covert operation	
Passive Infrared	Detects temperature differential between target and background. Provides direction and target count.	Tracked Vehicle 0-16 Wheeled Vehicle 0-16 Personnel 0-80	0 ft 3.5in x 12.9in	 Low false alarm rate Quiescent until activated by targets Operates on lantern batteries Low power DSP 	
Magnetic	Detects movement of ferrous metals. Provides direction and target count.	Tracked Vehicle 0-50 Wheeled Vehicle 0-50 Personnel 0-8 f	ft Weight: 1 1lbs		

Device	Description	Message Type	Size/Weight	Features	
Monitor	Provides the capability to display sensor transmissions. Can be used to relay sensor data to an external digital display via built-in RS-232 port.	Manchester Format	13in L x 16in W x 7in D Weight: 3.3lbs	■ 2 MHz between channels ■ VHF 162MHz to 174MHz band ■ 2 crystal-controlled frequencies	
Repeater	Utilized to overcome line-of-sight obstructions or extend communications range by 50 miles	Manchester Format	13in L x 12in W x 6in D Weight: 3.3lbs	■ LPI/LPD ultra-short burst transmissions ■ 5-watt transmitters	